Solar Design Engineer

Madison, WI

**Job Description:** DESCRIPTION:

The Solar Engineer is responsible for engineering, design (using AutoCAD), and delivery of grid connected solar photovoltaic systems (including rooftop, carport and ground mounted arrays) on time and on budget.

The Solar Engineer will manage proposals and the bid/award process for obtaining these services, and will provide project management and design consultation for all projects. Design to include; scope of work, complete bill of materials, specifications, bid drawings and project schedule. The Solar Engineer will produce pre-conceptual designs with accompanying production estimates and review structural, geotechnical, environmental, permitting, and zoning challenges for projects. He/She will review solar system engineering designs, modeling, and performance data, and provide engineering support during the construction process. Manage outside consultants to obtain assessments of project structural or geotechnical considerations, interconnect issues, and to identify the required approvals from Authorities Having Jurisdiction (AHJs). Review the costs of structural estimates, interconnection, permitting agreements, production estimates, and assessment of commercial risk factors. Oversee the development of structural and electrical designs for net-metered roof, ground and parking canopy solar electric systems that meet all national, state and local code requirements as well as customer defined requirements.

The Solar Engineer will provide final bids, proposals, and RFIs, and provide support during construction and commissioning. Maintain design and proposal requirements, knowledge of codes and standards, design procedures, methods and process, improve efficiency of project development and project selection process.

**REQUIREMENTS:**

BSEE/BSME

NABCEP Certification or PMP a plus

Knowledge of codes such as the NEC and UBC.

2+ years of commercial PV system design, permitting, construction, commissioning and O&M

Experience in providing technical support energy-related projects with accountability for project performance and design
Strong knowledge of photovoltaic system design and optimizing system components for energy production.

Strong knowledge of electrical and structural design components and manufacturers.

Experience in value engineering of photovoltaic or other constructions projects.

Good working knowledge of standard utility process for interconnection approval and design requirements.

Strong AutoCAD skills (2010-2012 software for 2D architectural and electrical plans) and knowledge, able to fully CAD and produce drawings for projects.

Strong communication, presentation, and project management skills

Working knowledge of energy modeling, PV specific modeling, standard electrical calculations, basic structural & mechanical calculation

Experience with medium voltage power electronics

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